

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal617mxb

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files  
NEWS 3 Feb 06 Engineering Information Encompass files have new names  
NEWS 4 Feb 16 TOXLINE no longer being updated  
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure  
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA  
NEWS 7 May 07 DGENE Reload  
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL

NEWS EXPRESS May 23 CURRENT WINDOWS VERSION IS V6.0a,  
CURRENT MACINTOSH VERSION IS V5.0C (ENG) AND V5.0JB (JP),  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2001

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:55:47 ON 22 JUN 2001

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 11:55:59 ON 22 JUN 2001

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 20 JUN 2001 HIGHEST RN 342773-47-1

DICTIONARY FILE UPDATES: 20 JUN 2001 HIGHEST RN 342773-47-1

TSCA INFORMATION NOW CURRENT THROUGH January 11, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT  
for details.

=> s 4-carboxystyryl-4-chlorobenzylsulfone/cn

L1 0 4-CARBOXYLSTYRYL-4-CHLOROBENZYL-SULFONE/CN

=> s 4-carboxystyryl-4-chlorobenzylsulfone/cn

L2 0 4-CARBOXYSTYRYL-4-CHLOROBENZYL-SULFONE/CN

=> s 4-carboxystyryl

10141653 4  
33 CARBOXYSTYRYL  
L3 16 4-CARBOXYSTYRYL  
(4(W)CARBOXYSTYRYL)

=> s 13 and chlorobenzylsulfone

0 CHLOROBENZYL-SULFONE  
L4 0 L3 AND CHLOROBENZYL-SULFONE

=> s 13 and chlorobenzyl and sulfone

11750 CHLOROBENZYL  
7092 SULFONE  
7 SULFONES  
7092 SULFONE  
(SULFONE OR SULFONES)  
L5 0 L3 AND CHLOROBENZYL AND SULFONE

=> s 13 and sulfone

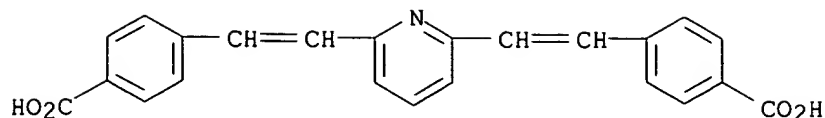
7092 SULFONE  
7 SULFONES  
7092 SULFONE  
(SULFONE OR SULFONES)  
L6 1 L3 AND SULFONE

=> d

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS  
RN 145087-06-5 REGISTRY  
CN Benzoic acid, 4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis-, polymer with  
4,4'-sulfonylbis[benzenamine] (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzenamine, 4,4'-sulfonylbis-, polymer with  
4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis[benzoic acid] (9CI)  
OTHER NAMES:  
CN **2,6-Bis(4-carboxystyryl)pyridine-4,4'-diaminodiphenyl sulfone  
copolymer**  
MF (C23 H17 N O4 . C12 H12 N2 O2 S)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polystyrene, Polysulfone, Polyvinyl  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

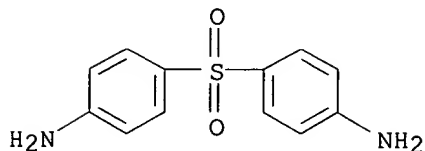
CRN 111481-39-1  
CMF C23 H17 N O4



CM 2

CRN 80-08-0

CMF C12 H12 N2 O2 S



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 13 1-15

L3 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2001 ACS

RN 145087-07-6 REGISTRY

CN Benzoic acid, 4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis-, polymer with 1,4-benzenediamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,4-Benzenediamine, polymer with 4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis[benzoic acid] (9CI)

OTHER NAMES:

CN **2,6-Bis(4-carboxystyryl)pyridine-1,4-phenylenediamine copolymer**

MF (C23 H17 N O4 . C6 H8 N2)x

CI PMS

PCT Polyamide, Polyamide formed, Polystyrene, Polyvinyl

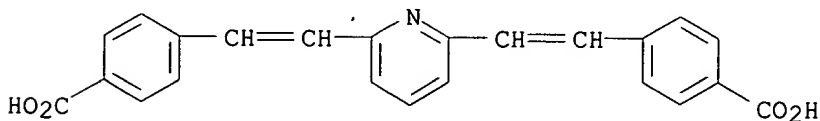
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 111481-39-1

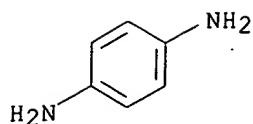
CMF C23 H17 N O4



CM 2

CRN 106-50-3

CMF C6 H8 N2

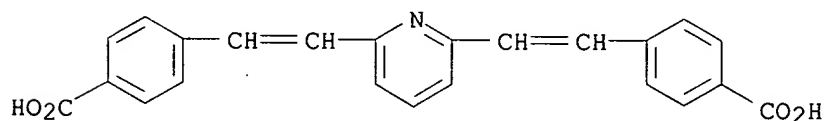


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 145087-06-5 REGISTRY  
CN Benzoic acid, 4,4'-(2,6-pyridinediylldi-2,1-ethenediyl)bis-, polymer with 4,4'-sulfonylbis[benzenamine] (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzenamine, 4,4'-sulfonylbis-, polymer with 4,4'-(2,6-pyridinediylldi-2,1-ethenediyl)bis[benzoic acid] (9CI)  
OTHER NAMES:  
CN **2,6-Bis(4-carboxystyryl)pyridine-4,4'-diaminodiphenyl sulfone copolymer**  
MF (C23 H17 N O4 . C12 H12 N2 O2 S)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polystyrene, Polysulfone, Polyvinyl  
SR CA  
LC STN Files: CA, CAPLUS

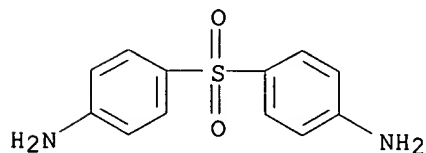
CM 1

CRN 111481-39-1  
CMF C23 H17 N O4



CM 2

CRN 80-08-0  
CMF C12 H12 N2 O2 S



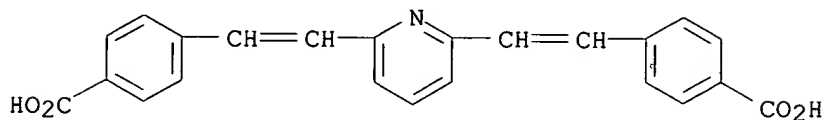
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 145087-05-4 REGISTRY  
CN Benzoic acid, 4,4'-(2,6-pyridinediylldi-2,1-ethenediyl)bis-, polymer with 4,4'-oxybis[benzenamine] (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzenamine, 4,4'-oxybis-, polymer with 4,4'-(2,6-pyridinediylldi-2,1-ethenediyl)bis[benzoic acid] (9CI)  
OTHER NAMES:  
CN **2,6-Bis(4-carboxystyryl)pyridine-4,4'-diaminodiphenyl ether**

copolymer  
 MF (C23 H17 N O4 . C12 H12 N2 O)x  
 CI PMS  
 PCT Polyamide, Polyamide formed, Polyether, Polystyrene, Polyvinyl  
 SR CA  
 LC STN Files: CA, CAPLUS

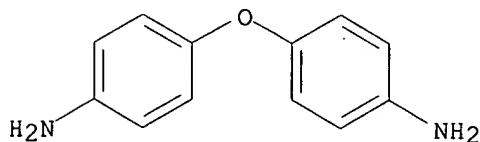
CM 1

CRN 111481-39-1  
 CMF C23 H17 N O4



CM 2

CRN 101-80-4  
 CMF C12 H12 N2 O



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2001 ACS  
 RN 145087-04-3 REGISTRY  
 CN Benzoic acid, 4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis-, polymer with 4,4'-methylenebis[benzenamine] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzenamine, 4,4'-methylenebis-, polymer with 4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis[benzoic acid] (9CI)

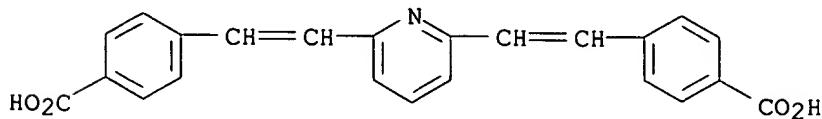
OTHER NAMES:

CN **2,6-Bis(4-carboxystyryl)pyridine-4,4'-diaminodiphenylmethane copolymer**

MF (C23 H17 N O4 . C13 H14 N2)x  
 CI PMS  
 PCT Polyamide, Polyamide formed, Polystyrene, Polyvinyl  
 SR CA  
 LC STN Files: CA, CAPLUS

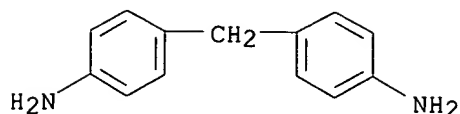
CM 1

CRN 111481-39-1  
 CMF C23 H17 N O4



CM 2

CRN 101-77-9  
CMF C13 H14 N2

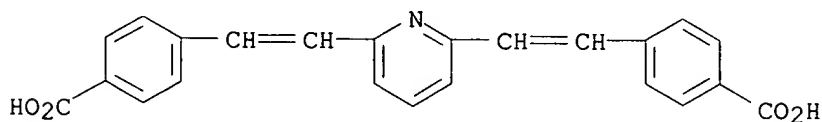


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 111481-39-1 REGISTRY  
CN Benzoic acid, 4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **2,6-Bis(4-carboxystyryl)pyridine**  
FS 3D CONCORD  
MF C23 H17 N O4  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS

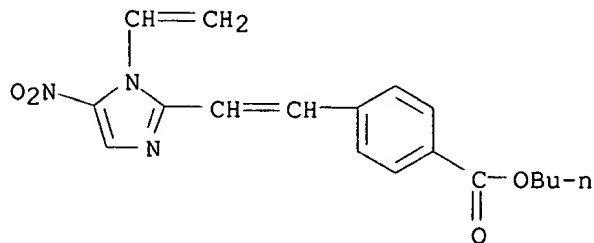


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 41590-71-0 REGISTRY  
CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-, butyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

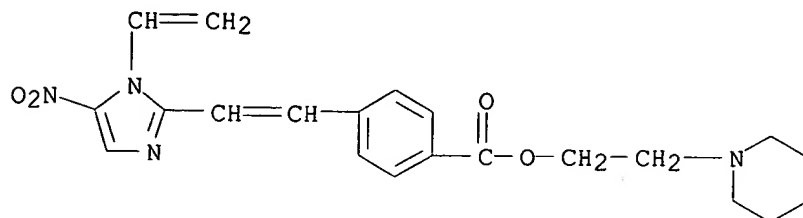
CN **2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole butyl ester**  
FS 3D CONCORD  
MF C18 H19 N3 O4  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXLIT  
(\*File contains numerically searchable property data)



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 41552-54-9 REGISTRY  
CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-,

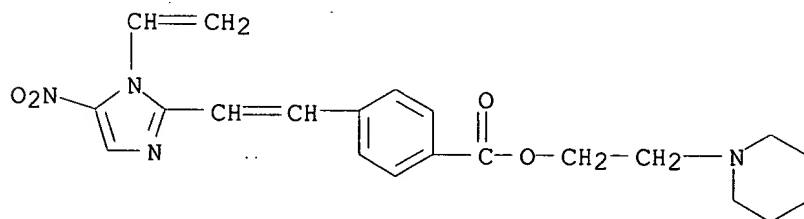
2-(1-piperidinyl)ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole 2-piperidinyl ethyl  
ester monohydrochloride  
MF C21 H24 N4 O4 . Cl H  
LC STN Files: CA, CAPLUS, TOXLIT  
CRN (41552-53-8)



● HCl

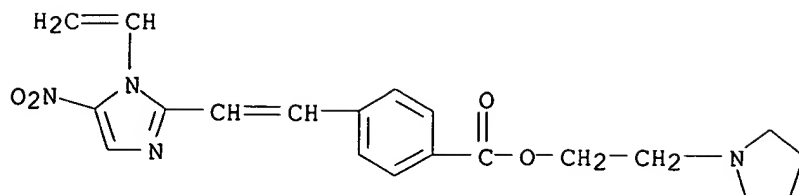
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 41552-53-8 REGISTRY  
CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-,  
2-(1-piperidinyl)ethyl ester (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN (4-Carboxystyryl)-5-nitro-1-vinylimidazole 2-piperidinol ethyl  
ester  
FS 3D CONCORD  
MF C21 H24 N4 O4  
CI COM  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXLIT  
(\*File contains numerically searchable property data)



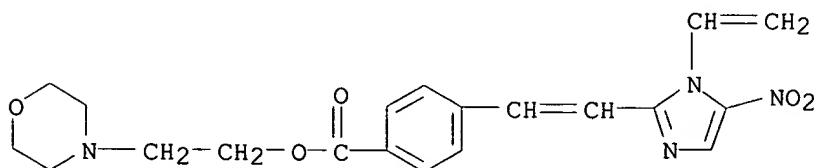
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 41552-52-7 REGISTRY  
CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-,  
2-(1-pyrrolidinyl)ethyl ester (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole 2-pyrrolidinol ethyl  
ester  
FS 3D CONCORD  
MF C20 H22 N4 O4  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXLIT  
(\*File contains numerically searchable property data)



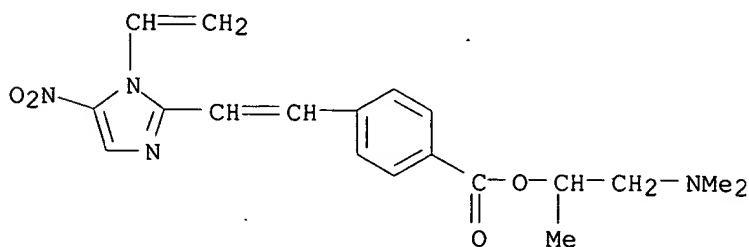
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 41552-51-6 REGISTRY  
CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-, 2-(4-morpholinyl)ethyl ester (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole 2-morpholino ethyl ester**  
FS 3D CONCORD  
MF C20 H22 N4 O5  
LC STN Files: CA, CAPLUS, TOXLIT



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 41552-50-5 REGISTRY  
CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-, 2-(dimethylamino)-1-methylethyl ester, monohydrochloride (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole 2-(dimethylamino)-1-methyl ester monohydrochloride**  
MF C19 H22 N4 O4 . Cl H  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXLIT  
(\*File contains numerically searchable property data)

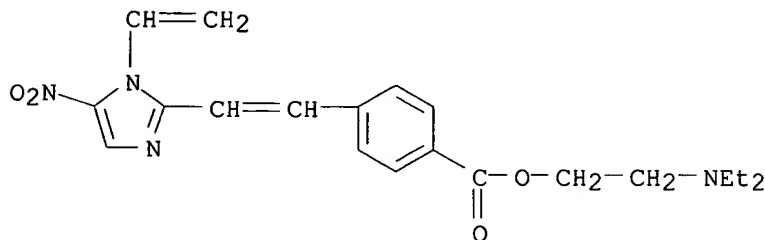


● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)



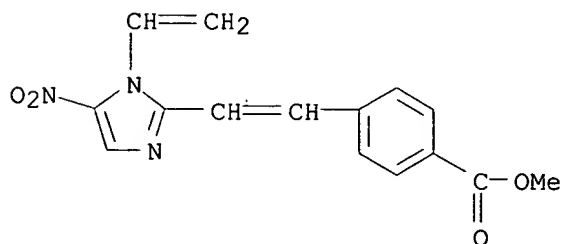
L3 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2001 ACS  
 RN 41552-49-2 REGISTRY  
 CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-, 2-(diethylamino)ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole 2-(diethylamino) ethyl ester monohydrochloride**  
 MF C20 H24 N4 O4 . Cl H  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXLIT  
 (\*File contains numerically searchable property data)



● HCl

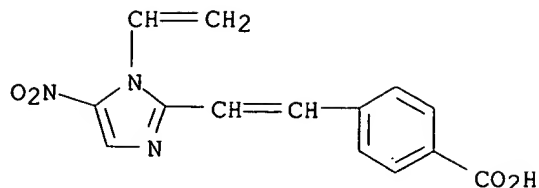
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2001 ACS  
 RN 41552-48-1 REGISTRY  
 CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-, methyl ester (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole methyl ester**  
 FS 3D CONCORD  
 MF C15 H13 N3 O4  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXLIT  
 (\*File contains numerically searchable property data)



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

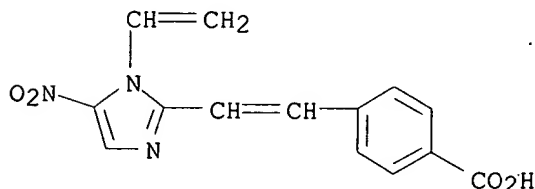
L3 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2001 ACS  
 RN 40771-53-7 REGISTRY  
 CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]-, sodium salt (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole sodium salt**  
 CN Sodium 2-(4'-carboxystyryl)-5-nitro-1-vinylimidazole  
 MF C14 H11 N3 O4 . Na  
 LC STN Files: CA, CAPLUS, TOXLIT  
 CRN (30529-16-9)



● Na

2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

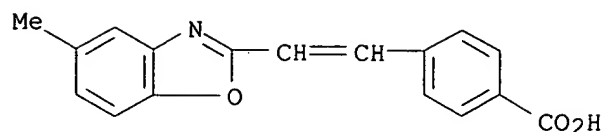
L3 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 30529-16-9 REGISTRY  
CN Benzoic acid, 4-[2-(1-ethenyl-5-nitro-1H-imidazol-2-yl)ethenyl]- (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzoic acid, p-[2-(5-nitro-1-vinylimidazol-2-yl)vinyl]- (8CI)  
OTHER NAMES:  
CN 2-(4'-Carboxystyryl)-5-nitro-1-vinylimidazole  
CN **2-(4-Carboxystyryl)-5-nitro-1-vinylimidazole**  
CN Stirimazole  
FS 3D CONCORD  
MF C14 H11 N3 O4  
CI COM  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, DDFU, DRUGU, IFICDB, IFIPAT, IFIUDB,  
TOXLIT, USAN  
(\*File contains numerically searchable property data)  
Other Sources: WHO



2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 13 16

L3 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2001 ACS  
RN 3806-85-7 REGISTRY  
CN Benzoic acid, 4-[2-(5-methyl-2-benzoxazolyl)ethenyl]- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzoic acid, p-[2-(5-methyl-2-benzoxazolyl)vinyl]- (7CI, 8CI)  
OTHER NAMES:  
CN .omega.-[5'-Methylbenzoxazolyl-2']styrene-4-carboxylic acid  
CN **5-Methyl-2-(4-carboxystyryl)benzoxazole**  
FS 3D CONCORD  
MF C17 H13 N O3  
LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB,  
USPATFULL



3 REFERENCES IN FILE CA (1967 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s sulfone and carboxystyryl

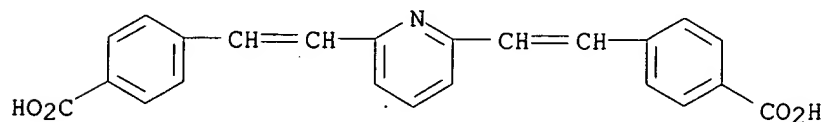
7092 SULFONE  
 7 SULFONES  
 7092 SULFONE  
 (SULFONE OR SULFONES)  
 33 CARBOXYSTYRYL  
 L7 1 SULFONE AND CARBOXYSTYRYL

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS  
 RN 145087-06-5 REGISTRY  
 CN Benzoic acid, 4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis-, polymer with  
 4,4'-sulfonylbis[benzenamine] (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Benzenamine, 4,4'-sulfonylbis-, polymer with  
 4,4'-(2,6-pyridinediyl-di-2,1-ethenediyl)bis[benzoic acid] (9CI)  
 OTHER NAMES:  
 CN **2,6-Bis(4-carboxystyryl)pyridine-4,4'-diaminodiphenyl sulfone  
 copolymer**  
 MF (C23 H17 N O4 . C12 H12 N2 O2 S)x  
 CI PMS  
 PCT Polyamide, Polyamide formed, Polystyrene, Polysulfone, Polyvinyl  
 SR CA  
 LC STN Files: CA, CAPLUS

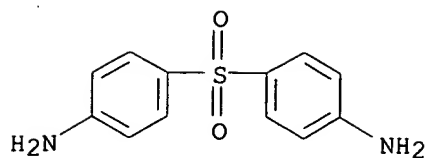
CM 1

CRN 111481-39-1  
 CMF C23 H17 N O4



CM 2

CRN 80-08-0  
 CMF C12 H12 N2 O2 S



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> sulfone and chlorobenzene

SULFONE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s sulfone and chlorobenzene

```

7092 SULFONE
  7 SULFONES
7092 SULFONE
    (SULFONE OR SULFONES)
6916 CHLOROBENZENE
L8    300 SULFONE AND CHLOROBENZENE

```

=> s l8 and carboxy

```

244886 CARBOXY
L9      0 L8 AND CARBOXY

```

=> s l8 and styryl

```

13840 STYRYL
L10     0 L8 AND STYRYL

```

=> d hist

(FILE 'HOME' ENTERED AT 11:55:47 ON 22 JUN 2001)

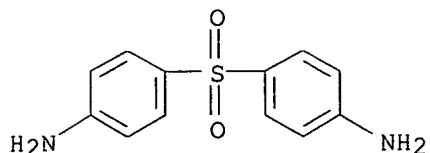
FILE 'REGISTRY' ENTERED AT 11:55:59 ON 22 JUN 2001

```

L1      0 S 4-CARBOXYLSTYRYL-4-CHLOROBENZYLSULFONE/CN
L2      0 S 4-CARBOXYSTYRYL-4-CHLOROBENZYLSULFONE/CN
L3      16 S 4-CARBOXYSTYRYL
L4      0 S L3 AND CHLOROBENZYLSULFONE
L5      0 S L3 AND CHLOROBENZYL AND SULFONE
L6      1 S L3 AND SULFONE
L7      1 S SULFONE AND CARBOXYSTYRYL
L8      300 S SULFONE AND CHLOROBENZENE
L9      0 S L8 AND CARBOXY
L10     0 S L8 AND STYRYL

```

CRN 80-08-0  
CMF C12 H12 N2 O2 S



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s 13 and (chloro or fluoro)

2419812 CHLORO  
42 CHLOROS  
2419812 CHLORO  
(CHLORO OR CHLOROS)  
1518439 FLUORO  
13 FLUOROS  
1518439 FLUORO  
(FLUORO OR FLUOROS)

L4 69 L3 AND (CHLORO OR FLUORO)

=> s benzyl and 14

191645 BENZYL  
8 BENZYL  
191645 BENZYL  
(BENZYL OR BENZYL)

L5 0 BENZYL AND L4

=> d 14 1-10 kwic

L4 ANSWER 1 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 2,4-dichloro-1-[2-(phenylsulfonyl)ethenyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Sulfone, 2,4-dichlorostyryl phenyl (6CI)

L4 ANSWER 2 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, 3,4-dichlorostyryl phenyl (6CI) (CA INDEX NAME)

L4 ANSWER 3 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 2,4-dichloro-1-[2-[(4-methylphenyl)sulfonyl]ethenyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Sulfone, 2,4-dichlorostyryl p-tolyl (6CI)

L4 ANSWER 4 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, 3,4-dichlorostyryl p-tolyl (6CI) (CA INDEX NAME)

L4 ANSWER 5 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, 2,4-dichlorostyryl methyl (6CI) (CA INDEX NAME)

L4 ANSWER 6 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, .beta.-chloro-.alpha.-methylstyryl p-tolyl (7CI) (CA INDEX NAME)

L4 ANSWER 7 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Sulfone, 2,4,5-trichlorophenyl 2,4,5-trichlorostyryl (7CI) (CA INDEX NAME)

L4 ANSWER 8 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Sulfone, p-chlorostyryl 2,4,5-trichlorophenyl (7CI) (CA INDEX NAME)

L4 ANSWER 9 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Sulfone, p-chlorophenyl 2,4,5-trichlorostyryl (7CI) (CA INDEX NAME)

L4 ANSWER 10 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Benzene, 1-fluoro-4-[2-(methylsulfonyl)ethenyl]-, (Z)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN cis-4-Fluorostyryl methyl sulfone

=> d 11-35 kwic

L5 HAS NO ANSWERS

L1 13814 SEA FILE=REGISTRY ABB=ON PLU=ON STYRYL

L2 7067 SEA FILE=REGISTRY ABB=ON PLU=ON SULFONE

L3 156 SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND L2

L4 69 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND (CHLORO OR FLUORO)

L5 0 SEA FILE=REGISTRY ABB=ON PLU=ON BENZYL AND L4

=> d 14 11-35 kwic

L4 ANSWER 11 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Benzene, 1-fluoro-4-[2-(methylsulfonyl)ethenyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4-Fluorostyryl methyl sulfone

CN p-Fluorostyryl methyl sulfone

L4 ANSWER 12 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Benzene, 1-chloro-4-[2-(methylsulfonyl)ethenyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Sulfone, p-chlorostyryl methyl (6CI)

OTHER NAMES:

CN p-Chlorostyryl methyl sulfone

L4 ANSWER 13 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Benzene, 1-chloro-2-[2-[(4-methylphenyl)sulfonyl]ethenyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN o-Chlorostyryl p-tolyl sulfone

L4 ANSWER 14 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Benzene, 1-chloro-4-[2-[(4-nitrophenyl)sulfonyl]ethenyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN p-Chlorostyryl p-nitrophenyl sulfone

L4 ANSWER 15 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Benzene, 1-chloro-2-[2-[(4-chlorophenyl)sulfonyl]ethenyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN p-Chlorophenyl o-chlorostyryl sulfone

L4 ANSWER 16 OF 69 REGISTRY COPYRIGHT 2001 ACS

CN Benzene, 1-chloro-2-[2-(phenylsulfonyl)ethenyl]- (9CI) (CA

INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, o-chlorostyryl phenyl (6CI)

L4 ANSWER 17 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, [2-[(heptafluoropropyl)sulfonyl]ethenyl]-, (E)- (9CI)  
(CA INDEX NAME)  
OTHER NAMES:  
CN Heptafluoropropyl trans-styryl sulfone

L4 ANSWER 18 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-chloro-4-[2-(phenylsulfonyl)ethenyl]-, (Z)- (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-chlorostyryl phenyl, (Z)- (8CI)

L4 ANSWER 19 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-chloro-4-[(2-phenylethenyl)sulfonyl]-, (Z)- (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-chlorophenyl styryl, (Z)- (8CI)  
OTHER NAMES:  
CN p-Chlorophenyl cis-styryl sulfone

L4 ANSWER 20 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-[(2-chloro-2-phenylethenyl)sulfonyl]-4-nitro-, (Z)-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, .beta.-chlorostyryl p-nitrophenyl, (Z)- (8CI)

L4 ANSWER 21 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-chloro-4-[(2-chloro-2-phenylethenyl)sulfonyl]-, (Z)-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-chlorophenyl .beta.-chlorostyryl, (Z)- (8CI)

L4 ANSWER 22 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-[(2-chloro-2-phenylethenyl)sulfonyl]-4-nitro-, (E)-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, .beta.-chlorostyryl p-nitrophenyl, (E)- (8CI)

L4 ANSWER 23 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-chloro-4-[(2-chloro-2-phenylethenyl)sulfonyl]-, (E)-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-chlorophenyl .beta.-chlorostyryl, (E)- (8CI)

L4 ANSWER 24 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, [1-chloro-2-(methylsulfonyl)ethenyl]-, (Z)- (9CI) (CA  
INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, .beta.-chlorostyryl methyl, (Z)- (8CI)

L4 ANSWER 25 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, [[(1Z)-2-chloro-2-phenylethenyl]sulfonyl]- (9CI) (CA  
INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzene, [(2-chloro-2-phenylethenyl)sulfonyl]-, (Z)-  
CN Sulfone, .beta.-chlorostyryl phenyl, (Z)- (8CI)

L4 ANSWER 26 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, [(2-chloro-2-phenylethenyl)sulfonyl]-, (E)- (9CI) (CA  
INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, .beta.-chlorostyryl phenyl, (E)- (8CI)

L4 ANSWER 27 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Sulfone, 4-chloro-2-nitrophenyl styryl, (E)- (8CI) (CA INDEX NAME)

L4 ANSWER 28 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Benzene, 1-fluoro-4-[(2-phenylethenyl)sulfonyl]-, (E)- (9CI)  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Sulfone, p-fluorophenyl styryl, (E)- (8CI)

L4 ANSWER 29 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Sulfone, p-bromophenyl p-fluorostyryl (8CI) (CA INDEX NAME)

L4 ANSWER 30 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Sulfone, .beta.-chloro-.alpha.-methylstyryl trichloromethyl (8CI)  
 (CA INDEX NAME)

L4 ANSWER 31 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Sulfone, .beta.-chloro-.alpha.-ethylstyryl trichloromethyl (8CI)  
 (CA INDEX NAME)

L4 ANSWER 32 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Sulfone, .alpha.-butyl-.beta.-chlorostyryl trichloromethyl (8CI)  
 (CA INDEX NAME)

L4 ANSWER 33 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Benzene, [(2-chloro-2-phenylethenyl)sulfonyl]- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Sulfone, .beta.-chlorostyryl phenyl (8CI)

L4 ANSWER 34 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Benzene, 1-chloro-4-[2-(methylsulfonyl)ethenyl]-, (E)- (9CI)  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Sulfone, p-chlorostyryl methyl, (E)- (8CI)

L4 ANSWER 35 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Sulfone, .alpha.-chloro-.beta.-iodostyryl p-tolyl, (Z)- (8CI)  
 (CA INDEX NAME)

=> d 14 36-69 kwic

L4 ANSWER 36 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Benzene, 1-chloro-4-[2-[(4-methylphenyl)sulfonyl]ethenyl]- (9CI)  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Sulfone, p-chlorostyryl p-tolyl (6CI, 8CI)

L4 ANSWER 37 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Benzene, 1-chloro-4-[2-(phenylsulfonyl)ethenyl]- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Sulfone, p-chlorostyryl phenyl (6CI, 8CI)

L4 ANSWER 38 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Sulfone, 3,4-dichlorostyryl ethyl (8CI) (CA INDEX NAME)

L4 ANSWER 39 OF 69 REGISTRY COPYRIGHT 2001 ACS  
 CN Benzene, [1-chloro-2-(methylsulfonyl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Sulfone, .beta.-chlorostyryl methyl, (E)- (8CI)



L4 ANSWER 40 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-[(2-chloro-2-phenylethenyl)sulfonyl]-4-methyl-, (Z)-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, .beta.-chlorostyryl p-tolyl, (Z)- (8CI)

L4 ANSWER 41 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-[(2-chloro-2-phenylethenyl)sulfonyl]-4-methyl-, (E)-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, .beta.-chlorostyryl p-tolyl, (E)- (8CI)

L4 ANSWER 42 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, 3,4-dichlorostyryl ethyl, (E)- (8CI) (CA INDEX NAME)

L4 ANSWER 43 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-chloro-4-[[ (1E)-2-phenylethenyl]sulfonyl]- (9CI) (CA  
INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzene, 1-chloro-4-[(2-phenylethenyl)sulfonyl]-, (E)-  
CN Sulfone, p-chlorophenyl styryl, (E)- (8CI)  
OTHER NAMES:  
CN (E)-p-Chlorophenyl styryl sulfone  
CN p-Chlorophenyl trans-styryl sulfone

L4 ANSWER 44 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, p-chlorostyryl 2,4,5-trichlorophenyl, (E)- (8CI) (CA  
INDEX NAME)

L4 ANSWER 45 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, 2-chloroethyl styryl (7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 46 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-bromo-4-[2-[(chlorodifluoromethyl)sulfonyl]ethenyl]-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone p-bromostyryl chlorodifluoromethyl (7CI)

L4 ANSWER 47 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, [2-[(chlorodifluoromethyl)sulfonyl]ethenyl]- (9CI) (CA  
INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, chlorodifluoromethyl styryl (7CI)

L4 ANSWER 48 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-bromo-4-[2-[(trifluoromethyl)sulfonyl]ethenyl]- (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-bromostyryl trifluoromethyl (7CI)

L4 ANSWER 49 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-fluoro-3-[2-[(trifluoromethyl)sulfonyl]ethenyl]- (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, m-fluorostyryl trifluoromethyl (7CI)

L4 ANSWER 50 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, p-chlorostyryl 2,4,5-trichlorophenyl, (Z)- (8CI) (CA  
INDEX NAME)

L4 ANSWER 51 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-chloro-4-[[ (1E)-2-(4-chlorophenyl)ethenyl]sulfonyl]-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzene, 1-chloro-4-[[2-(4-chlorophenyl)ethenyl]sulfonyl]-, (E)-

CN Sulfone, p-chlorophenyl p-chlorostyryl, (E)- (8CI)

L4 ANSWER 52 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, p-chlorophenyl p-chlorostyryl, (Z)- (8CI) (CA INDEX NAME)

L4 ANSWER 53 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-bromo-4-[2-[(trichloromethyl)sulfonyl]ethenyl]- (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-bromostyryl trichloromethyl (7CI)

L4 ANSWER 54 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, [2-[(trichloromethyl)sulfonyl]ethenyl]- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, styryl trichloromethyl (7CI)

L4 ANSWER 55 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, .beta.-chloro-.alpha.-(p-chlorophenyl)styryl p-tolyl (7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 56 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, p,.beta.-dichloro-.alpha.-phenylstyryl p-tolyl (7CI, 8CI)  
(CA INDEX NAME)

L4 ANSWER 57 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, m,.beta.-dichloro-.alpha.-phenylstyryl p-tolyl (7CI, 8CI)  
(CA INDEX NAME)

L4 ANSWER 58 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, .beta.-chloro-.alpha.-(m-chlorophenyl)styryl p-tolyl (7CI, 8CI)  
(CA INDEX NAME)

L4 ANSWER 59 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, .beta.-chloro-p-methoxy-.alpha.-phenylstyryl p-tolyl (7CI, 8CI)  
(CA INDEX NAME)

L4 ANSWER 60 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, .beta.-chlorostyryl p-nitrophenyl (7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 61 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-chloro-4-[[2-(4-chlorophenyl)ethenyl]sulfonyl]- (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-chlorophenyl p-chlorostyryl (7CI, 8CI)  
OTHER NAMES:  
CN p-Chlorophenyl p-chlorostyryl sulfone

L4 ANSWER 62 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-bromo-4-[[2-(4-chlorophenyl)ethenyl]sulfonyl]- (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-bromophenyl p-chlorostyryl (7CI, 8CI)

L4 ANSWER 63 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, p-fluorostyryl trifluoromethyl (7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 64 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, 1-chloro-4-[(2-phenylethenyl)sulfonyl]- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, p-chlorophenyl styryl (7CI, 8CI)

L4 ANSWER 65 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, [2-[(chloromethyl)sulfonyl]ethenyl]- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, chloromethyl styryl (7CI, 8CI)

L4 ANSWER 66 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, styryl trifluoromethyl (7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 67 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, p-fluorostyryl trifluoromethyl, (E)- (8CI) (CA INDEX NAME)

L4 ANSWER 68 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Sulfone, m-fluorostyryl trifluoromethyl, (E)- (8CI) (CA INDEX NAME)

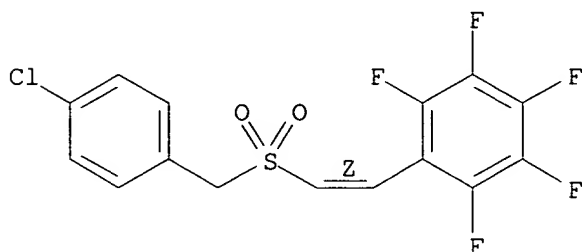
L4 ANSWER 69 OF 69 REGISTRY COPYRIGHT 2001 ACS  
CN Benzene, [2-[(trifluoromethyl)sulfonyl]ethenyl]-, (E)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sulfone, styryl trifluoromethyl, (E)- (8CI)

L8 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 366807-81-0 REGISTRY  
CN Benzene, [(1Z)-2-[[4-chlorophenyl)methyl]sulfonyl]ethenyl]pentafluoro-  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(Z)-2,3,4,5,6-Pentafluorostyryl 4-chlorobenzyl sulfone**  
FS STEREOSEARCH  
MF C15 H8 Cl F5 O2 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

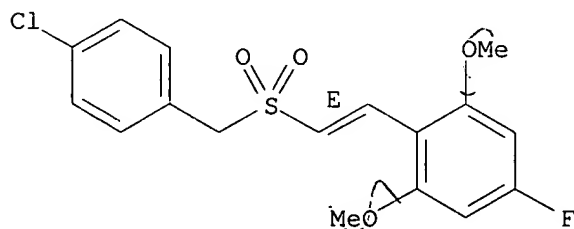
1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 334969-48-1 REGISTRY  
CN Benzene,  
2-[(1E)-2-[[4-chlorophenyl)methyl]sulfonyl]ethenyl]-5-fluoro-1,3-  
dimethoxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(E)-2,6-Dimethoxy-4-fluorostyryl 4-chlorobenzyl sulfone**  
FS STEREOSEARCH  
MF C17 H16 Cl F O4 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

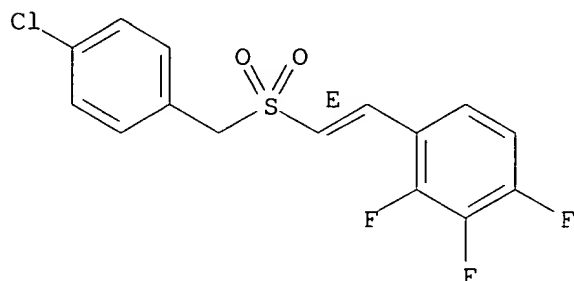
3 REFERENCES IN FILE CA (1962 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 334969-36-7 REGISTRY  
CN Benzene, 1-[(1E)-2-[[4-chlorophenyl)methyl]sulfonyl]ethenyl]-2,3,4-trifluoro- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (E)-2,3,4-Trifluorostyryl 4-chlorobenzyl sulfone  
FS STEREOSEARCH  
MF C15 H10 Cl F3 O2 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

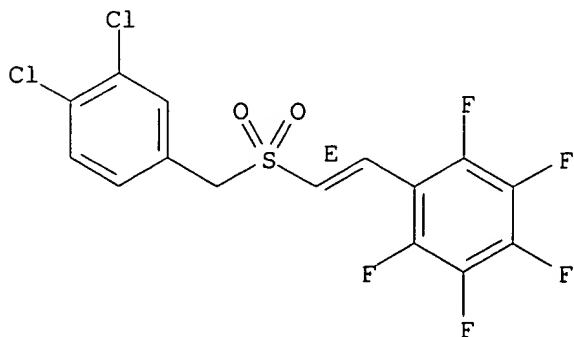
3 REFERENCES IN FILE CA (1962 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 334969-22-1 REGISTRY  
CN Benzene,  
[(1E)-2-[[3,4-dichlorophenyl)methyl]sulfonyl]ethenyl]pentafluoro-  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN (E)-2,3,4,5,6-Pentafluorostyryl 3,4-dichlorobenzyl sulfone  
FS STEREOSEARCH  
MF C15 H7 Cl2 F5 O2 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

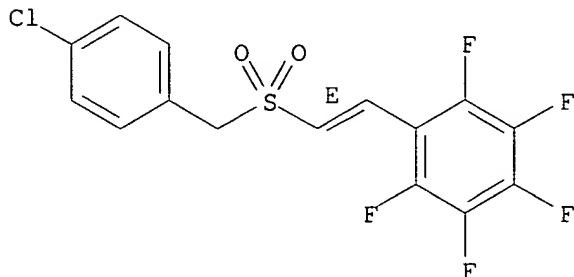
3 REFERENCES IN FILE CA (1962 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 334969-20-9 REGISTRY  
CN Benzene, [(1E)-2-[[ (4-chlorophenyl)methyl]sulfonyl]ethenyl]pentafluoro-  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN (E)-2,3,4,5,6-Pentafluorostyryl 4-chlorobenzyl sulfone  
FS STEREOSEARCH  
MF C15 H8 Cl F5 O2 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.



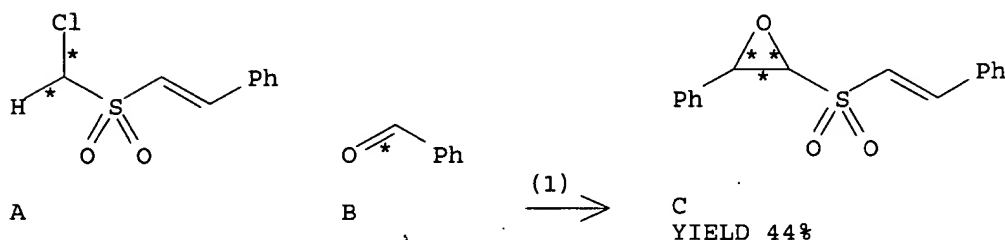
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1962 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=>

CC 25-12 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 AB (E)-PhCH:CHSO<sub>2</sub>C-HCl reacts with PhCHO and CH<sub>2</sub>:CHCN under phase-transfer catalysis conditions to give 2-phenyl-3-(trans-.beta.-styrylsulfonyl)oxirane and [1-chloro-3-cyano-1-(cyanoethyl)propyl](trans-.beta.-styryl)sulfone, resp., and with nitroarenes to form the products of vicarious nucleophilic substitution of hydrogen.  
 ST chloromethylstyrylsulfone carbanion vicarious nucleophilic substitution; nitroarene chloromethylstyrylsulfone vicarious nucleophilic substitution  
 IT Nitro compounds  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (arom.; reactions of (chloromethyl)styrylsulfone carbanion)  
 IT Aromatic compounds  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (nitro; reactions of (chloromethyl)styrylsulfone carbanion)  
 IT 86-57-7, 1-Nitronaphthalene 97-00-7, 4-Chloro-1,3-dinitrobenzene  
 99-65-0, 1,3-Dinitrobenzene 100-00-5, 4-Chloronitrobenzene 100-52-7,  
 Benzaldehyde, reactions 104-88-1, 4-Chlorobenzaldehyde, reactions  
 107-13-1, 2-Propenenitrile, reactions 609-40-5, 2-Nitrothiophene  
 5446-92-4, 2-Methoxy-5-nitropyridine 199864-18-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactions of (chloromethyl)styrylsulfone carbanion)  
 IT 170884-97-6P 199864-20-5P 199864-23-8P 199864-25-0P 199864-27-2P  
 199864-29-4P 199864-31-8P 199864-33-0P 199864-35-2P 199864-37-4P  
 199864-39-6P 199864-41-0P 199864-43-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (reactions of (chloromethyl)styrylsulfone carbanion)

RX(1) OF 11 A + B ==> C



RX(1) RCT A 199864-18-1, B 100-52-7

STAGE(1)

RGT D 865-47-4 t-BuOK

SOL 109-99-9 THF

STAGE(2)

RGT E 12125-02-9 NH<sub>4</sub>Cl

SOL 7732-18-5 Water

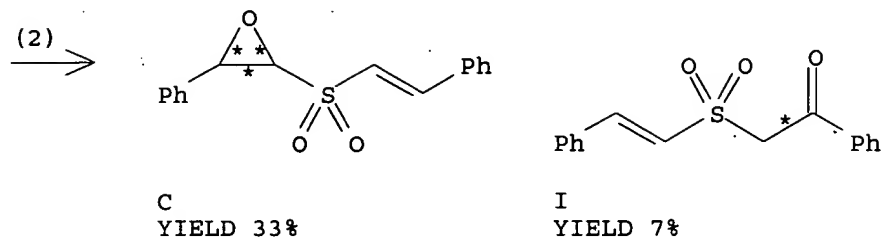
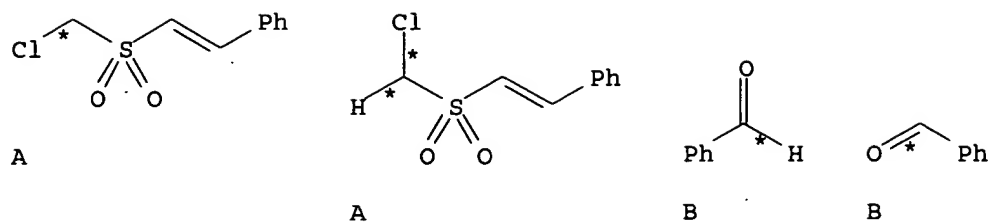
STAGE(3)

RGT F 7647-01-0 HCl

SOL 7732-18-5 Water

PRO C 199864-20-5

RX(2) OF 11 2 A + 2 B ==> C + I



RX(2)      RCT   A 199864-18-1, B 100-52-7

STAGE(1)

RGT   J 1310-73-2 NaOH

CAT   56-37-1 PhCH<sub>2</sub>NEt<sub>3</sub> Cl

SOL   7732-18-5 Water, 75-05-8 MeCN

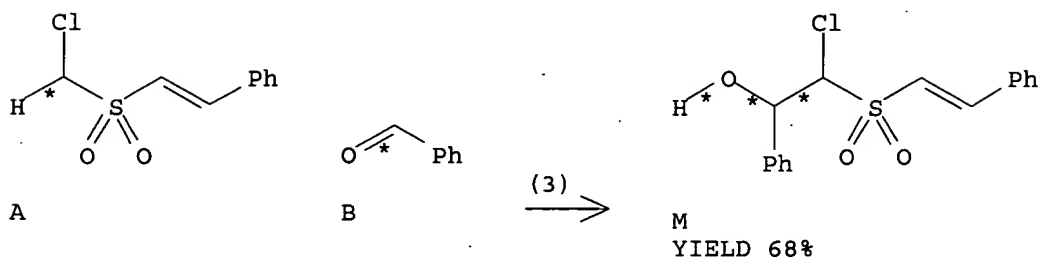
STAGE(2)

RGT   H 7732-18-5 Water

PRO   C 199864-20-5, I 170884-97-6

NTE   phase-transfer conditions

RX(3) OF 11      A + B  $\implies$  M



RX(3)      RCT   A 199864-18-1, B 100-52-7

STAGE(1)

RGT   D 865-47-4 t-BuOK

SOL   109-99-9 THF

STAGE(2)

RGT   F 7647-01-0 HCl

SOL   7732-18-5 Water

PRO   M 199864-23-8

NTE   reaction conditions det. product

RX(4) OF 11      A + 2 N  $\implies$  O





### STAGE (1)

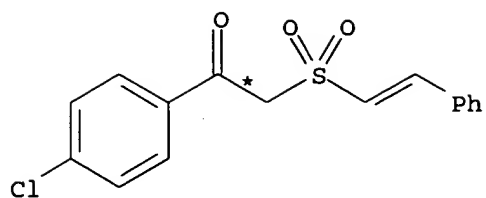
CAT 56-37-1 PhCH<sub>2</sub>NEt<sub>3</sub> Cl

## STAGE (2)

PRO 0 199864-25-0

$$\text{RX (5) OF 11} \quad 2 \text{ A} + 2 \text{ P} \implies \text{Q} + \text{R}$$


YIELD 13%



R  
YIELD 13%

RX(5) RCT A 199864-18-1, P 104-88-1

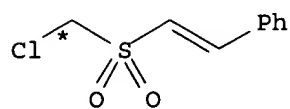
STAGE(1)

RGT J 1310-73-2 NaOH  
CAT 56-37-1 PhCH<sub>2</sub>NEt<sub>3</sub> Cl  
SOL 7732-18-5 Water, 75-05-8 MeCN

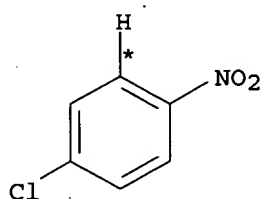
STAGE(2)

RGT H 7732-18-5 Water  
PRO Q 199864-43-2, R 199864-41-0  
NTE phase-transfer conditions

RX(6) OF 11 A + S ==> T

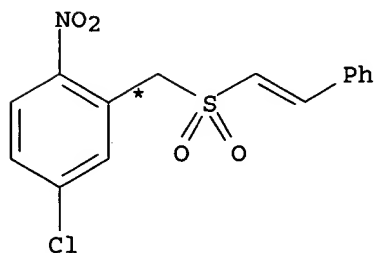


A



S

(6) →



T  
YIELD 6%

RX(6) RCT A 199864-18-1, S 100-00-5

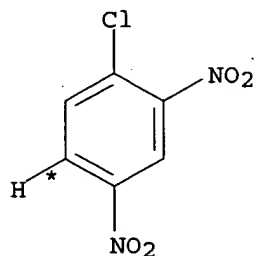
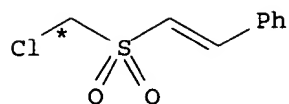
STAGE(1)

RGT D 865-47-4 t-BuOK  
SOL 109-99-9 THF, 68-12-2 DMF

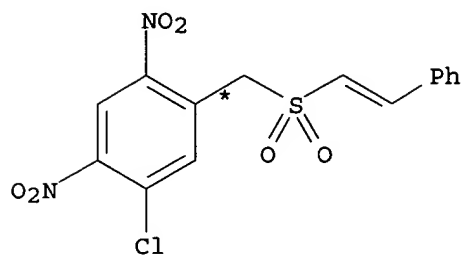
STAGE(2)

RGT F 7647-01-0 HCl  
SOL 7732-18-5 Water  
PRO T 199864-27-2

RX(7) OF 11      A + V ==> W



(7) →



W  
YIELD 48%

RX(7)      RCT A 199864-18-1, V 97-00-7

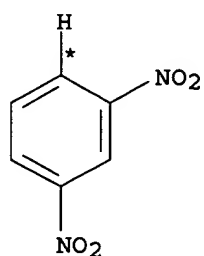
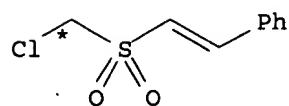
STAGE(1)

RGT D 865-47-4 t-BuOK  
SOL 109-99-9 THF, 68-12-2 DMF

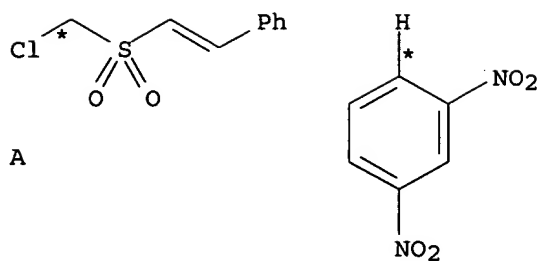
STAGE(2)

RGT F 7647-01-0 HCl  
SOL 7732-18-5 Water  
PRO W 199864-29-4

RX(8) OF 11      A + X ==> Y

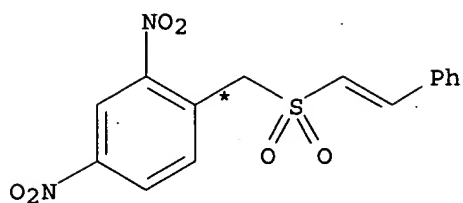


(8) →



A

X



Y

YIELD 56%

RX(8) RCT A 199864-18-1, X 99-65-0

STAGE(1)

RGT D 865-47-4 t-BuOK

SOL 109-99-9 THF, 68-12-2 DMF

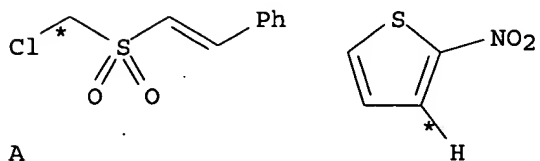
STAGE(2)

RGT F 7647-01-0 HCl

SOL 7732-18-5 Water

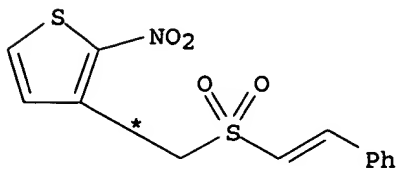
PRO Y 199864-31-8

RX(9) OF 11 A + Z ==> AA



A

Z



AA

YIELD 15%

RX(9) RCT A 199864-18-1, Z 609-40-5

STAGE(1)

RGT D 865-47-4 t-BuOK

SOL 109-99-9 THF, 68-12-2 DMF

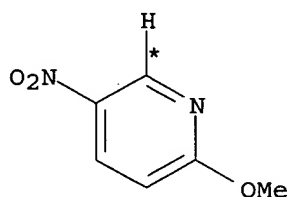
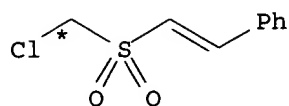
STAGE(2)

RGT F 7647-01-0 HCl

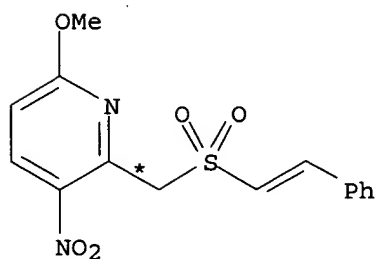
SOL 7732-18-5 Water

PRO AA 199864-33-0

RX(10) OF 11 A + AB ==> AC



(10) →



YIELD 16%

RX(10) RCT A 199864-18-1, AB 5446-92-4

STAGE(1)

RGT D 865-47-4 t-BuOK

SOL 109-99-9 THF, 68-12-2 DMF

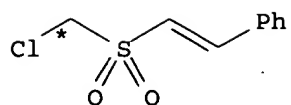
STAGE(2)

RGT F 7647-01-0 HCl

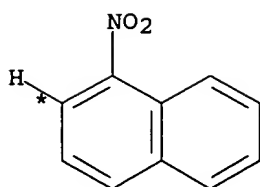
SOL 7732-18-5 Water

PRO AC 199864-35-2

RX(11) OF 11 A + AD ==> AE

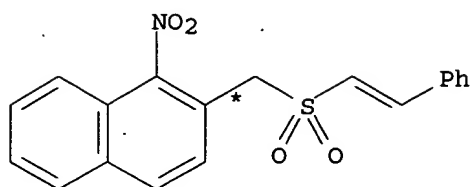


A



AD

(11) →



AE

YIELD 32%

RX(11) RCT A 199864-18-1, AD 86-57-7

STAGE(1)

RGT D 865-47-4 t-BuOK

SOL 109-99-9 THF, 68-12-2 DMF

STAGE(2)

RGT F 7647-01-0 HCl

SOL 7732-18-5 Water

PRO AE 199864-37-4

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=>